

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001857**Date Inspected:** 05-Mar-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Chang xing Dao, Shanghai**Quality Control Contact:** Mr. Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** See Below**Bid Item:** 77, 78, 79**Lot No:** B#204**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE II coating inspector, Mr. Baskar Govindarajan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE II coating inspector observed the following:

1. An inspection was requested on the Splice plates 503 pieces, X201B- 80 nos, X202C-109 nos, X202F- 8nos, X202H-8 nos, X202J- 298 nos, for Degreasing and cleaning, vide request no. 2794 at West gate of the Blasting Workshop. This Caltrans inspector observed, ABF inspectors Mr. Shi stone and Mr. Wei, performing Degreasing and Cleaning inspection of external surfaces. It was found that ABF inspectors accepted all 503 splice plates after the degreasing by ZPMC found satisfactory. after The ambient conditions found to be 3.8 deg. above dew point and the relative humidity found to be 69.4% outside the paint shop which is found to be within the parameters of contract documents.
2. An inspection was requested on 6 sets of OBG Suspender bracket for the surface preparation Inspection for Finish coat application, vide inspection request no. 2795. The suspender brackets are SB 32E-1 no, SB32W- 1 no., SB34W- 1 no., SB 34E-1 no., SB30E- 1 no., SB30W-1 no. The ambient conditions during the inspection found to be 2.4 deg. above dew point and the relative humidity found to be 65.8% inside the paint shop which is not found to be within the parameters of contract documents. This Caltrans inspector observed, ABF inspectors Mr. Don Walton, Mr. Shi stone and Mr. Wei performing Ambient condition check with Dew point meter and was rejected by ABF Inspectors. International protective coatings technical service representative Mr. Li peng was found present during the course of this inspection process. The same Suspender Brackets was offered for Finish

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coat Inspection again along with Cross beam (CB4) external surfaces for finish coat and Bike path (BK 001-024) external fabrication repaired areas for Blasting Inspection vide Request no. 2797. The ambient conditions were measured again and it was found not suitable for Painting as it is below 3 deg, celcius which is not acceptable as per Contract documents. (Photograph of Suspender Brackets is attached)

3. An inspection was requested on the Splice plates 503 pieces, X201B- 80 nos, X202C-109 nos, X202F- 8nos, X202H-8 nos, X202J- 298 nos, and Reblasted 360 pieces of splice plates for the Surface preparation check for Interzinc 22 application, vide inspection request no. 2796. This Caltrans inspector observed, ABF inspectors Mr. Don Walton, Mr. Wei and Mr. Shi stone rejected the same as it was found not suitable for Painting as it is below 3 deg, celcius which is not acceptable as per Contract documents. The surface profile measured by coarse grain method found to be between 72 to 81 microns which is acceptable as per contract documents. (Photograph of Coarse sheets attached). International protective coatings technical service representative Mr. Li peng was found present during the course of this inspection process.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



Summary of Conversations:

No applicable conversations

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Skyler Guest (15000422360), who represents the Office of Structural Materials for your project.

Inspected By: Baskar, Govindarajan

Quality Assurance Inspector

Reviewed By: Clifford, William

QA Reviewer